

quently merely indicated by empty places where the absent organs are never developed, as is very readily seen with respect to the stamina of those plants. We may therefore infer among the ordinary causes of disturbance in the floral symmetry, such as abortion, multiplication, degenerescence and adhesion, likewise that of the non-development of organs.

2. With respect to the origin of the union of the stamina called monadelphous, diadelphous, polyadelphous and synantherous, their adhesion is always subsequent to their first formation. The family of the *Stylidiæ* (*Stylidium adnatum*) alone appears to me to furnish a remarkable exception to this rule as regards the adhesion of the styles.

I shall here enumerate three principal kinds of irregularity among all the irregular corollas which I have examined:—

1. Irregularity by simple inequality of development among the several segments of the corolla, with complication of adhesion or complete atrophy or arrest of growth; this is the most common.

2. Irregularity by deviation, where the segments although equal turn all of the same side; for instance, the corolla of *Scævola levigata* (*Goodeniaceæ*), and the genera with ligulate florets of the *Compositæ*.

3. Irregularity by simple metamorphosis of the stamina, as in the family of the *Cannææ*, and probably that of the *Zingiberaceæ*.—*Comptes Rendus*, Aug. 16, 1847.

Chamæa, a new genus of Birds allied to *Parus*. By WM. GAMBEL.

Bill short, tapering to the point, acute and compressed. Both mandibles entire, ridge of upper elevated, and curving nearly from the base; the depression for the nostrils large, oval and exposed; the nostrils opening beneath a membrane in the depression. Wings very short and much rounded. Tail very long and graduated. Tarsus long.

Chamæa fasciata, nobis. Ground Tit.

Parus fasciatus, nobis, *Proceed. Acad. Nat. Sci.* vol. ii. p. 265.

This interesting bird, placed provisionally among the Titmice, I have now made the type of a new genus, not being able as yet to find a suitable place for it among those already described.

For several months before discovering the bird, I chased among the fields of dead mustard stalks, the weedy margins of streams, low thickets and bushy places, a continued, loud, crepitant, grating scold, which I took for that of some species of wren, but at last found to proceed from this wren-tit, if it might so be called. It is always difficult to be seen, and keeps in such places as I have described, close to the ground; eluding pursuit by diving into the thickest bunches of weeds and tall grass, or tangling bushes, uttering its grating wren-like note whenever an approach is made towards it.

But if quietly watched, it may be seen, when searching for insects, to mount the twigs and dried stalks of grass sideways, jerking its long tail, and keeping it erect like a wren, which, with its short wings, in such a position it so much resembles; at the same time uttering

a very slow, monotonous, singing, chickadee note, like *pee pee pee pee peep*; at other times its notes are varied, and a slow, whistling, continued *pwit, pwit, pwit, pwit, pwit, pwit*, may be heard. Again, in pleasant weather towards spring, I have heard them answering one another, sitting upon a low twig, and singing in a less solemn strain, not unlike a sparrow, a lively *pit, pit, pit, tr r r r r r r r r*, but if disturbed, at once resuming their grating scold.—*Silliman's Journal for Sept. 1847.*

METEOROLOGICAL OBSERVATIONS FOR OCT. 1847.

Chiswick.—October 1. Hazy: cloudy. 2. Cloudy. 3. Light clouds and fine: overcast. 4. Foggy: fine. 5. Fine: light clouds: clear at night. 6. Dense fog: very fine: lightning and rain at night. 7. Fine: rain: lightning at night: clear. 8. Very fine. 9, 10. Rain. 11. Rain in forenoon: clear at night. 12. Slight fog: very fine. 13. Foggy: hazy: cloudy at night. 14. Hazy and drizzly: cloudy. 15. Hazy and cold: slight rain. 16. Foggy: very fine. 17. Foggy, with slight drizzle: very fine. 18. Slight fog: rain. 19. Exceedingly fine: rain. 20. Very fine: rain at night. 21. Rain: clear at night. 22. Fine. 23. Densely clouded and boisterous: rain. 24. Slight showers. 25. Very clear: fine: clear and frosty. 26. Frosty: uniformly overcast. 27. Fine: rain. 28. Hazy and mild. 29. Exceedingly fine. 30. Overcast and mild. 31. Cloudy and mild.

Mean temperature of the month	52°·14
Mean temperature of Oct. 1846	50·37
Mean temperature of Oct. for the last twenty years	50·42
Average amount of rain in Oct.	2·60 inches.

Boston.—Oct. 1—5. Cloudy. 6. Rain. 7. Fine: rain P.M. 8. Fine. 9. Fog: eclipse of the sun invisible until three-quarters over: fog. 10. Rain: rain A.M. 11—13. Fine. 14, 15. Cloudy. 16. Fine. 17, 18. Fog. 19, 20. Fine. 21. Cloudy: rain A.M. 22. Fine. 23. Cloudy: rain P.M. 24—26. Fine. 27. Rain: rain A.M. and P.M. 28. Fog. 29. Rain: rain A.M. 30. Fine: rain A.M. 31. Cloudy.

Sandwich Manse, Orkney.—Oct. 1. Clear: cloudy. 2. Cloudy: clear. 3. Cloudy. 4. Cloudy: drops. 5. Bright: showers. 6. Showers. 7. Drizzle. 8. Drizzle: clear: aurora. 9. Clear: cloudy. 10. Cloudy: drizzle. 11. Clear: fog. 12. Fog. 13. Cloudy: clear: aurora. 14. Cloudy: clear. 15, 16. Clear: cloudy. 17. Showers: drizzle. 18. Rain. 19. Damp: rain. 20, 21. Showers: clear. 22. Showers: rain. 23. Showers: sleet-showers. 24. Sleet-showers. 25. Clear. 26. Drops: showers. 27. Bright: drops. 28. Cloudy. 29. Cloudy: shower: lightning. 30. Showers: rain. 31. Bright: cloudy.

Applegarth Manse, Dumfries-shire.—Oct. 1, 2. Chill and droughty. 3, 4. Dull, but fair. 5. Fair A.M.: showery P.M. 6. Heavy rain A.M. 7. Heavy rain A.M.: flood. 8. Frequent showers. 9. Fine A.M.: rain P.M. 10. Heavy rain. 11. Fair: rain in the night preceding. 12. Fair and fine. 13. Fair, but raw and cloudy. 14, 15. Fair, though chilly. 16. Very fine clear day. 17. Dull and cloudy. 18. Dull and cloudy: rain P.M. 19. Heavy rain. 20, 21. Occasional showers. 22. Rain A.M.: very heavy P.M. 23. Rain early A.M.: fine day. 24. Heavy showers. 25. Fair: fine: clear. 26. Rain nearly all day. 27. Heavy rain and flood. 28. Fog: cleared P.M. 29. Fair and fine. 30. Fair A.M.: heavy rain P.M. 31. Rain early A.M.: cleared.

Mean temperature of the month	49°·5
Mean temperature of Oct. 1846	49·5
Mean temperature of Oct. for twenty-five years	49·6
Average rain in Oct. for twenty years	3·56 inches.
Rain in Oct. 1847	5·09 ,,

